BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Project: Improvements to Toilet in Ward No.08 Kodigehalli

Est Cost: =25.0Lakh

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
Electronic Public Toilet									
1	Providing and Installing Electronic Public -Toilet is a Indian/western style closet, display instruction boards & Audio Instructions modular type, pre-fabricated public toilet made of Stainless steel and integrated with user-friendly electronic interfaces, to ensure cleanliness and hygiene to every user, Unmanned Operation system Electronic Public -Toilet have remote monitoring capabilities and its status can be tracked over web. These toilets incorporate full-cycle approach in sustainable sanitation by integrating electrical, mechanical and web technologies. They control entry, usage, cleaning, and remote monitoring capabilities with multiple revenue options, Overall out size shall be L-1.23 X W-2.32 X H- 3.02 Meters With Aesthetic finish and Inner usable Size in Bottom 1.0 X 1.25 Meters Body is made up of stainless steel SS 304 Double layered with in filled Technology for weather control, Water storage tank of 300 Liters on top of the toilet, Access control using coin validator Accepts Min 6 Types of coins (Rs 1, 2, 5),LED Lights and Fans Power saving technology by user sensing Devices both inside and outside, Automatic Flushing system with pressurized water (Pre flush and post flush with water saving technology) And also provision for Manual flush for Min of two times, Automatically floor cleaning after every 5 users and also provision for Manual Floor Wash for Min of two times, display light outside the toilet unit, which shows whether the unit is 'Occupied' by indicating with Red light or 'Unoccupied' by indicating with Green light. And Maintenance/Water Low indicating with Yellow light., Web enabled support by GPRS based real time data to be provided (Through Web and Mobile) to control room for monitoring the status of the unit, like water Low, number of users per day, coin collected, Fault location etc., Backup power facility by providing UPS of Min 5 Hours Backup, Provision for Advertisements display on exterior sides of the unit for revenue generation, Outside light glows by sensing the outside darkness, Provision Of automation for water pumping, Systems supplied are warranted for satisfactory performance, under normal and specified conditions of use, 24 months warranty from the date of commissioning. This warranty shall be against all defects in manufacturing, due to the usage of defective materials or inferior workmanship. the quoted rates shall be inclusive of maintenance of the E-toilet for a period of two years agaist the reveneu of pay and use collected through the toilet users and advertisement revenue by								
		Nos	3.00				3.00		
							3.00	640000.00	**1920000.00**
2	Annual maintenance of the E-Toilets after completion of intial maintenance of 2 years further for a period THREE years against the revenue of pay and use collected through the toilet users and advertisement revenue by displaying advertisement on the E-Toilet unit (maximum area of display allowed is approx.., 5 square m3eters) as per terms and conditions of bid document. (QUOTATION APPROVED RATE)								
	28 months x 3611.11=101111.00 for 01 number	months	3.00			3.00	3.00		
							3.00	101111.00	**303333.00**

No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
3	Earthwork in surface excavation in Hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. No. KBS 2.1(a) / 2.3.1. (P.No. 6/I.No. 2.2 of CSR 2018-19)								
	0.20+0.25/2	Cum	3.00	3.75	3.75	0.25	10.55		
	Basic rate	349.00					**10.55**	369.94	**3901.71**
	Sub Total	349.00							
	Area Weightage 6%	20.94							
	Final Rate	**369.94**							
4	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. 4.1, 4.2. (P.No.13, I.No. 4.3 of PWD SR 2018-19)								
		Cum	3.00	3.75	3.75	0.25	10.55		
	Basic rate	5102.00					**10.55**	5408.12	**57038.77**
	Sub Total	5102.00							
	Area Weightage 6%	306.12							
	Final Rate	**5408.12**							
5	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (P.No. 103, I.No. 14.7 of CSR 2018-19)								
		sqm	3.00	3.80	3.80		43.32		
	Basic rate	1110.00					**43.32**	1176.60	**50970.31**
	Sub Total	1110.00							
	Area Weightage 6%	66.60							
	Final Rate	**1176.60**							

No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
6								A.Sub Total Cost of KPWD SR items	111910.79
								B.Total Construction Cost	2335243.79
7								C.Cost towards PMC / Third Party inspection LS=B*2%	46705.00
8								D.Cost towards 12% GST on KPWD SR Items and PMC Charges=(A+C)*12%	19033.89
9								E.Cost towards 3% KRIDL Charges+ 1% CESS=B*4%	93409.75
								F.Sub Total=(B+C+D+E)	2494392.43
10								G.Miscellaneous and rounding off	5607.57
								H.Total=(G+H)	2500000.00

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore
12/X/18

Administrative Approval

Accorded For RS. 25.00 Lakhs
Head of A/C P-3294
CER NO : 13 Dt: 30/11/18

E.E. (Project) 30/11

Technical Sanction

Accorded For Rs. 25.00 Lakhs only
Head of A/C P-3294
CER NO TS/104/18-19 Dt: 30.11.18

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CE (YNK)